Brake Pad Partnership Proposition 13 Grant Contracting Status Summary

Task	Contractor	Budget	Status (09/03)
Atmospheric deposition modeling. Use atmospheric dispersion modeling methods to estimate deposition of copper from brake wear debris in Castro Valley. Consider resuspension of material initially deposited on roads.	Interviewed AER and Environ; will select one firm	$75,000	Contractor selected (but not yet notified)
Watershed modeling. Modify Alameda-SWMM (Castro Valley Creek) to address watershed runoff of copper in brake wear debris, using input from air quality model. U.S. EPA (Jim Carleton) is setting up BASINS model for the Bay (from Suisun Bay to the lower South Bay).	May cut SWMM model due to funds shortfall	$40,000 (estimated $75,000)	Exploring using U.S. EPA BASINS model only
Bay modeling. Use a combination of hydrodynamic (*e.g.*, MIKE21 model set up for Bay by URS under contract to City of SF [Airport]) and compartment (*e.g.*, WASP) models to address both short-term and long-term behavior of this copper in San Francisco Bay.	URS	$90,000 (estimated $125,000)	May shift funds from watershed modeling to this task
Chemical characterization of brake wear debris. Obtain data to better estimate fate of copper in wear debris in urban runoff, data for build-up/washoff functions, and sediment adsorption/desorption analyses. May use part of funds for Clemson to follow up copper extraction work funded by Palo Alto & BASMAA.	Will issue RFP	$100,000	Need representative brake wear debris sample
Physical characterization of brake wear debris. Obtain reliable measurement of the aerodynamic diameter of wear debris particles; possibly conduct other measurements to assist with validation of atmospheric deposition modeling.	Will issue RFP in October	$40,000	Need representative brake wear debris sample
Ambient Water Quality monitoring. Conduct enhanced monitoring of copper in stormwater in the Castro Valley watershed in winter 2003/04.	ACCWP	$30,000	Processing contract
Air Deposition monitoring. Collect near-source copper deposition data in study watershed for air dispersion model calibration in 2004.	SFEI	$50,000	Processing contract
Representative Sample of Brake Wear Debris. Generate a representative sample of copper-containing wear debris for tests.	Link Engineering (dyno lab)	$0 (not in grant)	Working with BMC
Copper load. Estimate copper releases from brakes and other sources into Castro Valley watershed.	??	$0 (not in grant)	Working on way to fund task
Manage the BPP and the Scientific Advisory Team. Facilitate stakeholders dialogue and decision making, provide resources necessary for collaborative problem solving, staff BPP Steering Committee, ensure implementation of final outcome based on study results, and communicate with stakeholders and scientists. Retain independent experts to advise and guide the development and implementation of the study.	Sustainable Conservation	$180,000 ($30,000 for scientific advisory team)	Processing contract
Project Management. Contract management, publication development, and website support. Includes ABAG 10% overhead.	San Francisco Estuary Project	$100,000	Funds available 10/03